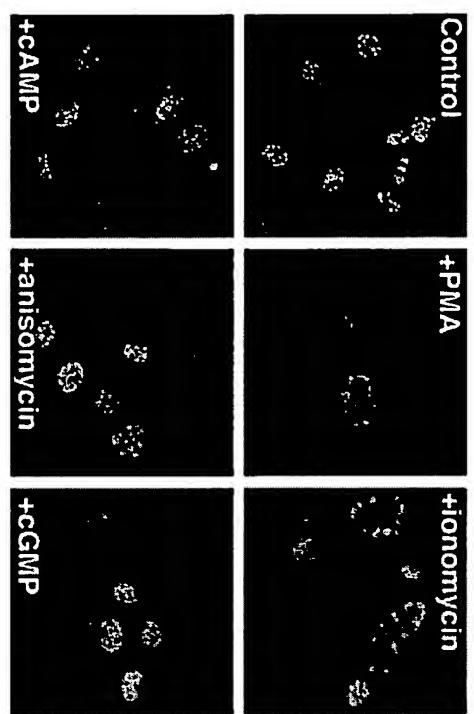
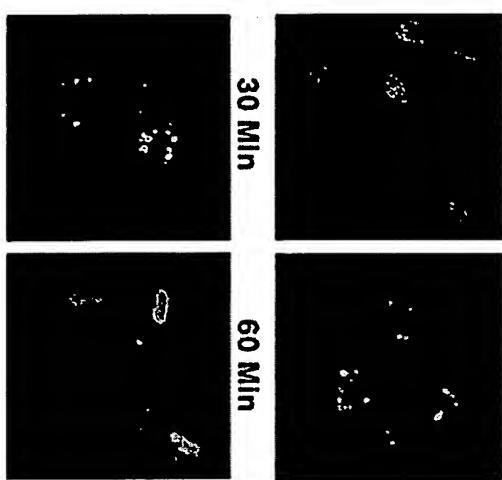


A

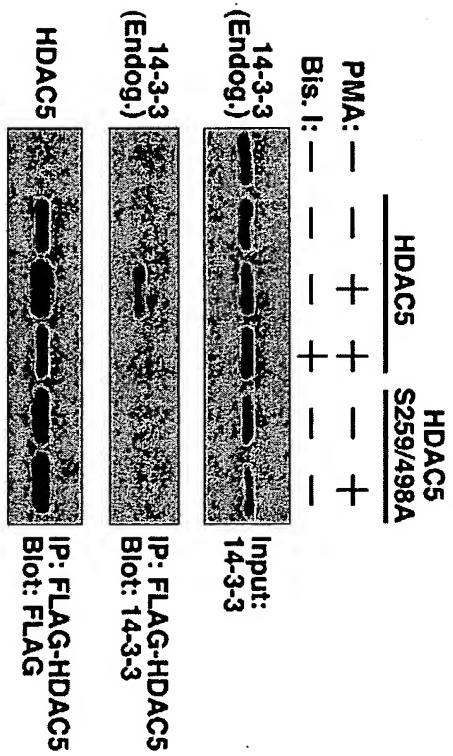


C

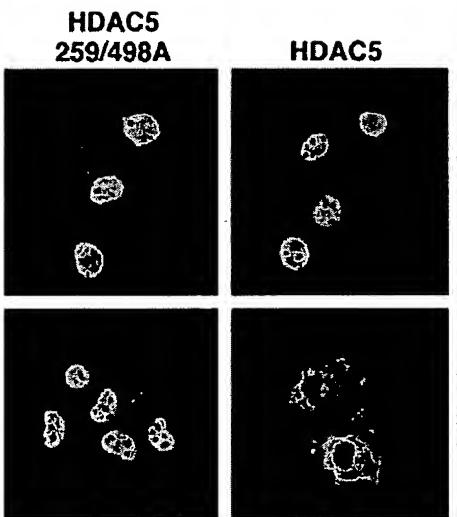
0 Min      15 Min



D



B



BEST AVAILABLE COPY

FIG. 1A-D

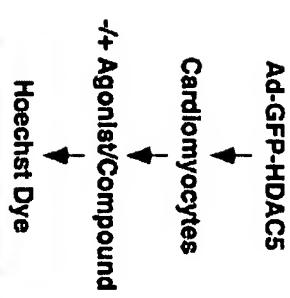
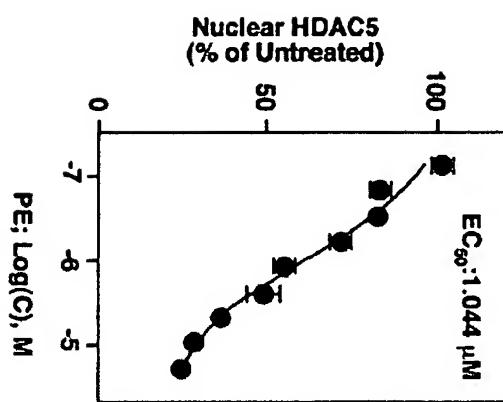
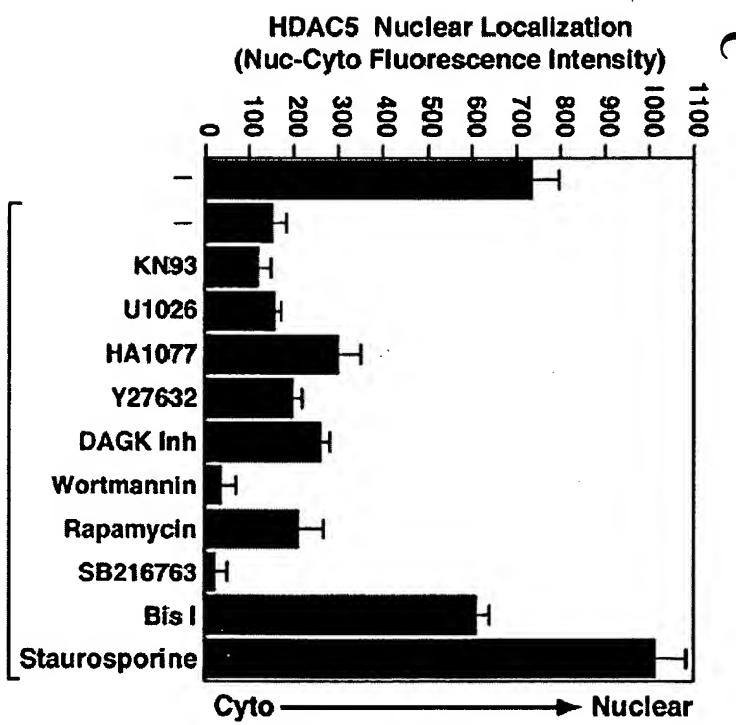
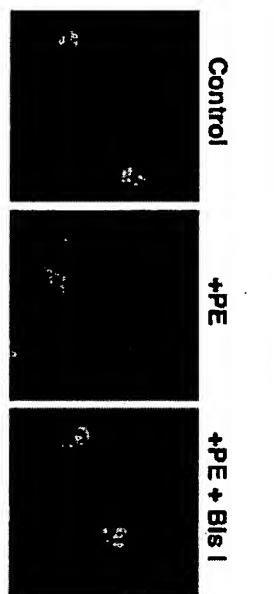
**A****B****C****D**

FIG. 2A-D

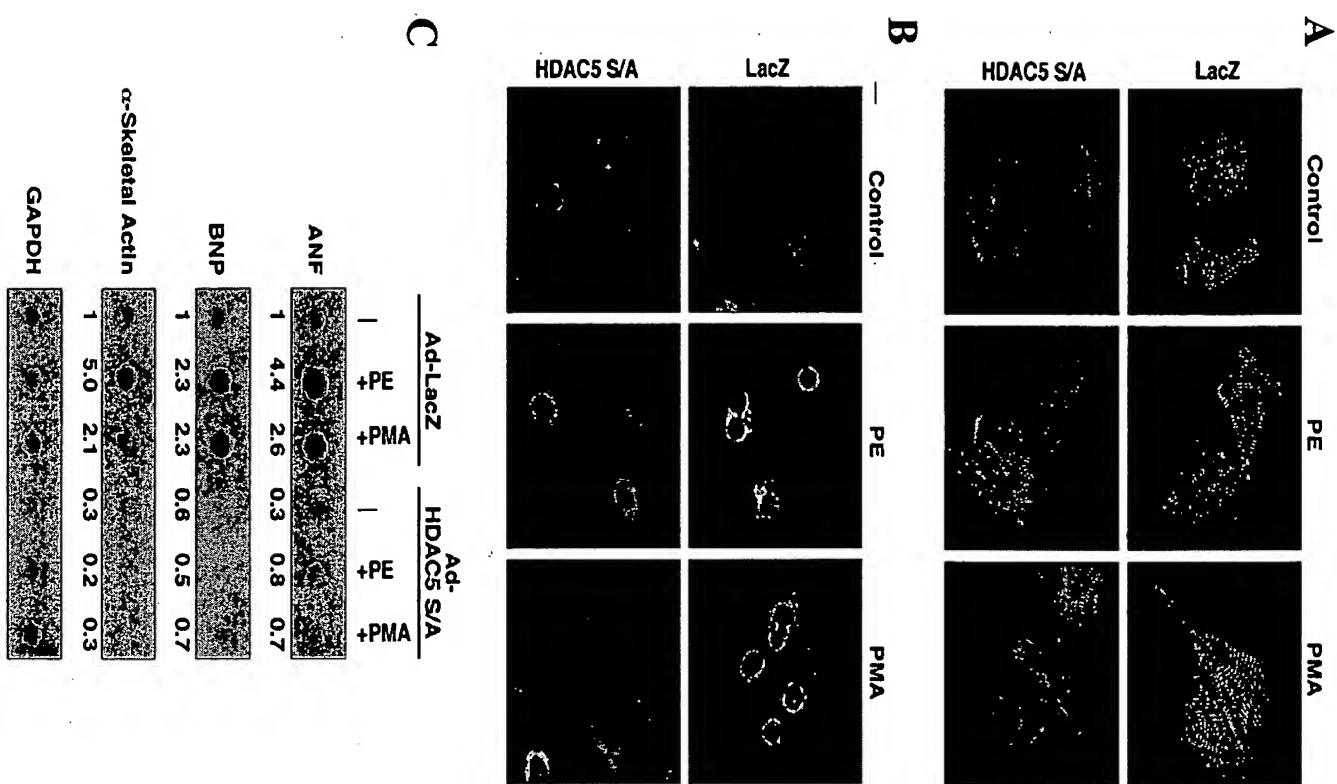
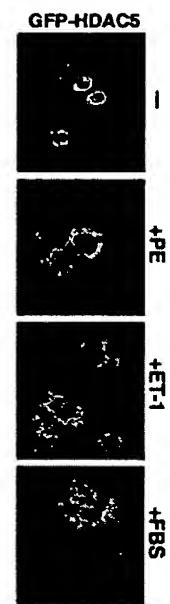


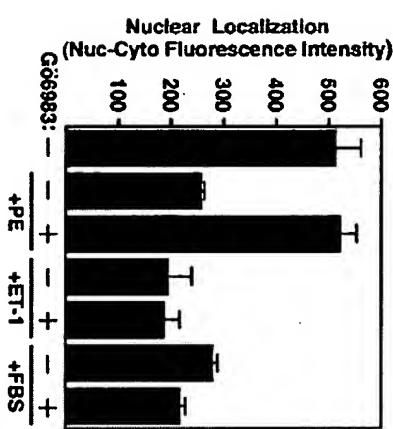
FIG. 3A-C

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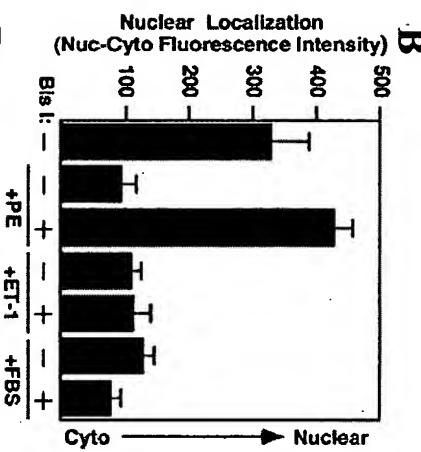
A



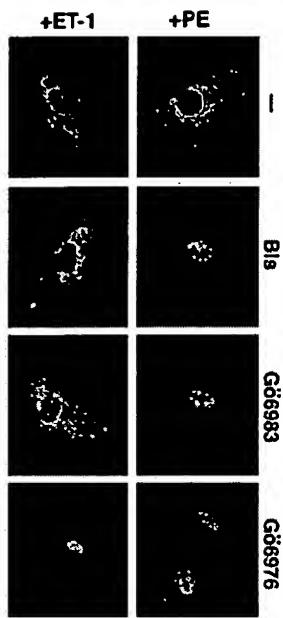
C



B



E



F

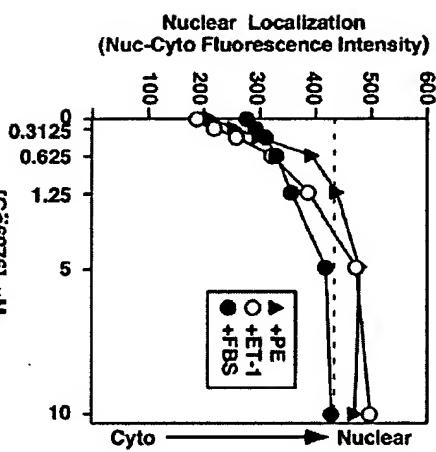


FIG. 4A-F

IP: GFP-HDAC5,  
Blot: 14-3-3  
HDAC5

BEST AVAILABLE COPY

**A**

HDAC4: 246 S 467 S

NLS HDAC-Domain

HDAC5: 259 S 498 S

-5

HDAC4: L R K T A S 246

HDAC5: L R K T A S 259

HDAC4: L S R T Q S 467

HDAC5: L G R T Q S 498

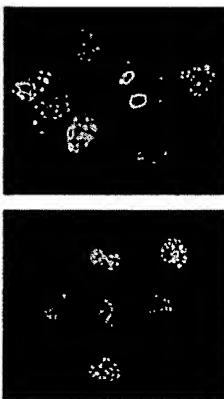
PKD: L X R X X

**B**

GFP-HDAC5 L254/493G

Control

+PMA

**C**

GFP-HDAC5 S259/498A

+PKD S/E

GFP-HDAC5 L254/493G

+PKD K/W

**D**

	HA-	HA-	
	PKD	PKD	
PMA:	-	+	-
	S/E	K/W	

Phospho-HDAC5

IP: FLAG-HDAC5,

IVK



HDAC5  
IP: FLAG-HDAC5,  
Blot: FLAG

PKD  
IP: FLAG-HDAC5,  
Blot: HA

14-3-3VP16: + + + + + + + +  
PKD S/E: - + - + - + - +  
Gal4-HDAC5: WT S259A S498A S498A/493G

**E**

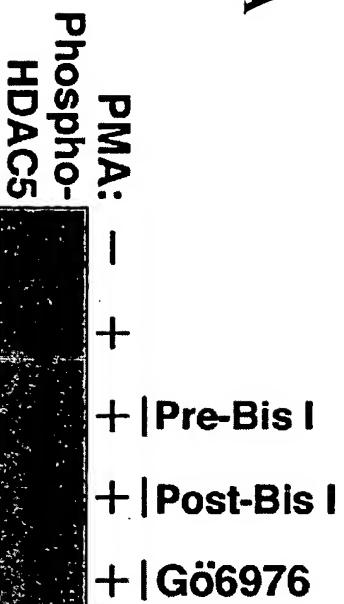
UAS-Luciferase

Normalized RLU

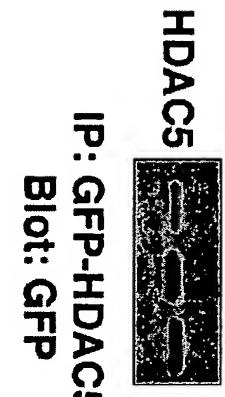
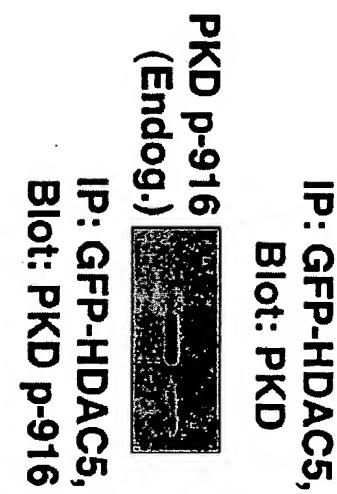


FIG. 5A-E

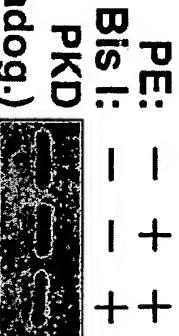
A



IP: FLAG-HDAC5,  
IVK



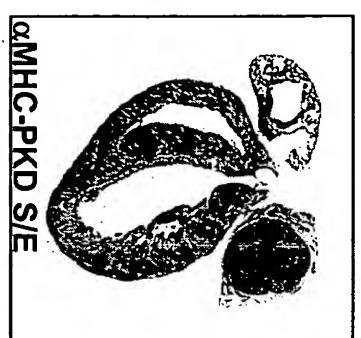
B



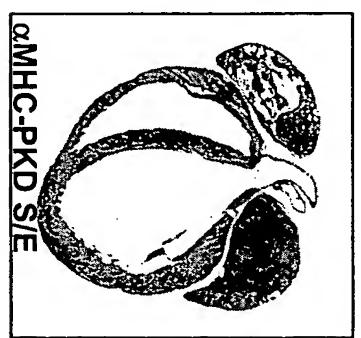
A



8 Weeks

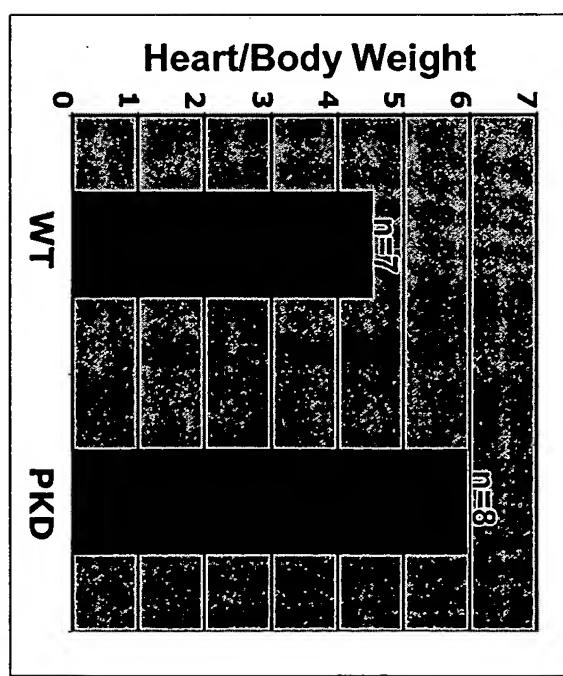


8 Weeks



4 Months

B



D

C

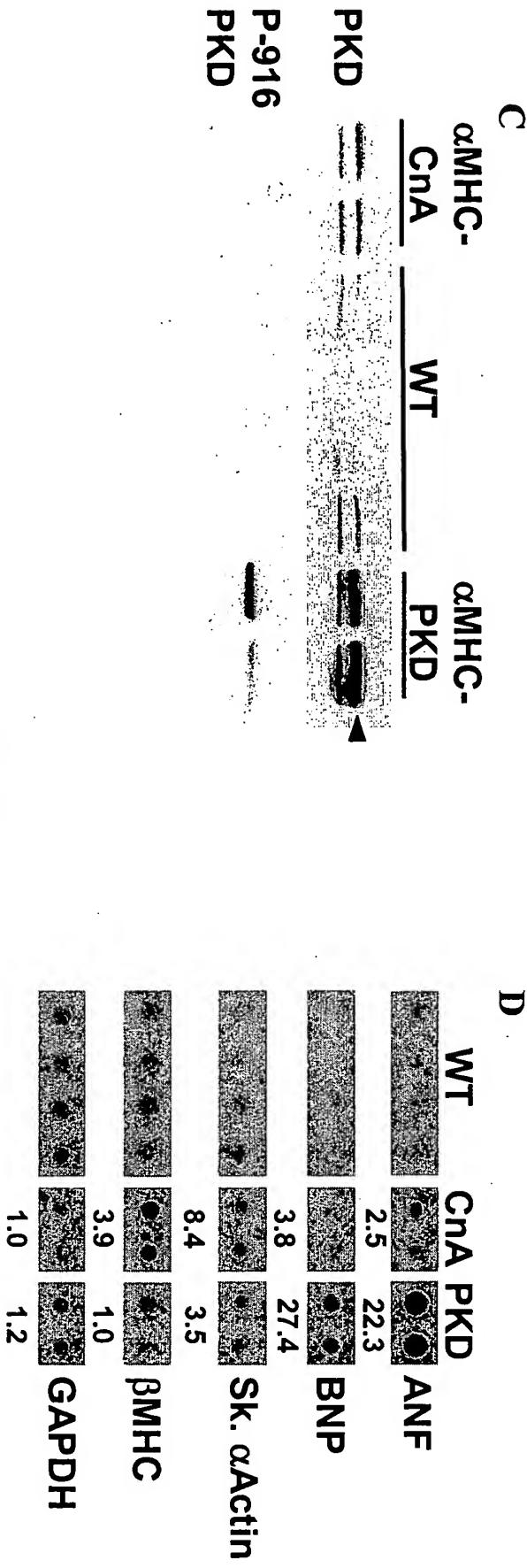


FIG. 7A-D

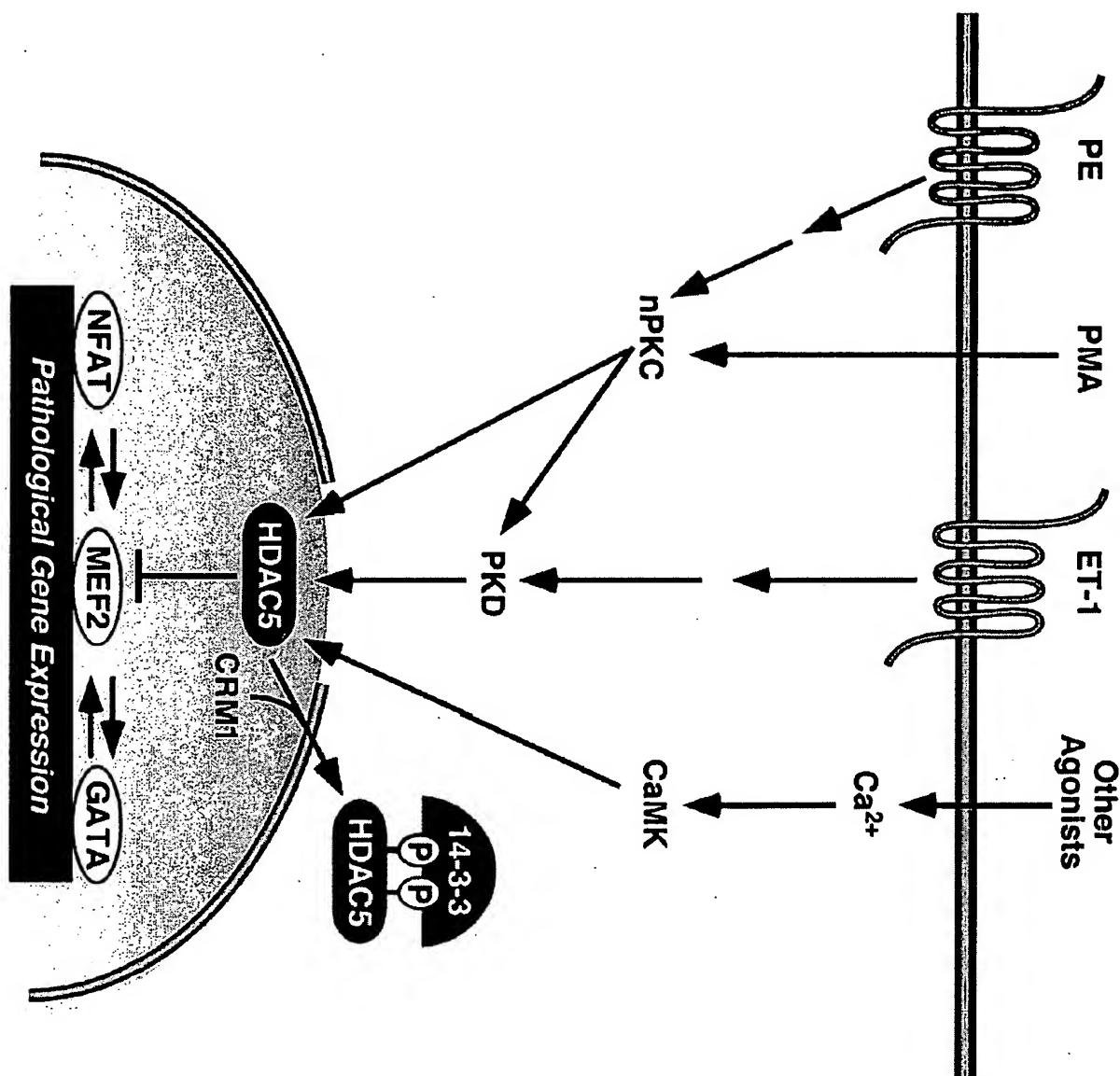


FIG. 8